

REMARKS

Claim 1 has been amended to call for the two queue system described in the present application in connection with Figures 12 and 13. There are separate queues for security and non-security packets and a list of packets may be identified which are either security or non-security. Then when a security packet is not ready to be transmitted because it needs security processing, the next non-security packet is transmitted. If the security packet is ready for processing, then the security packet is transmitted.

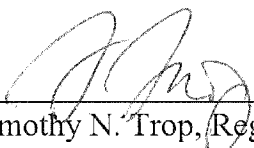
Moreover, two packets can be processed at the same time, in that the non-security packet can be transmitted while the non-ready security packet is being security processed.

Thus, the system does not simply determine which packet takes more time to process, but provides queues of packets that are either security or non-security and then transmits a security packet if ready and, otherwise, processes it while sending the non-security packet.

Neither of the cited references teach the amended claimed invention and, therefore, reconsideration is respectfully requested.

Respectfully submitted,

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